



USPTO

[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)Search: ☒ The ACM Digital Library ☐ The Guide

+firmware +hardware +xml +hierarchical

**SEARCH**

## Nothing Found

Your search for **+firmware +hardware +xml +hierarchical** did not return any results.

You may want to try an [Advanced Search](#) for additional options.

Please review the [Quick Tips](#) below or for more information see the [Search Tips](#).

### Quick Tips

- Enter your search terms in lower case with a space between the terms.

sales offices

You can also enter a full question or concept in plain language.

Where are the sales offices?

- Capitalize proper nouns to search for specific people, places, or products.

John Colter, Netscape Navigator

- Enclose a phrase in double quotes to search for that exact phrase.

"museum of natural history" "museum of modern art"

- Narrow your searches by using a **+** if a search term must appear on a page.

museum +art

- Exclude pages by using a **-** if a search term must not appear on a page.

museum -Paris

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

museum +"natural history" dinosaur -Chicago

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2007 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)

 Search: ☒ The ACM Digital Library ☐ The Guide

+xml +hierarchical +meta-information firmware hardware

**THE ACM DIGITAL LIBRARY**

[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Published before September 1999

Terms used:

Found 7 of 106,885

**xml hierarchical meta information firmware hardware**
 Sort results by relevance ☒ Save results to a Binder  
 Display results expanded form ☐ Search Tips  
☐ Open results in a new window

 Try an [Advanced Search](#)  
 Try this search in [The ACM Guide](#)

Results 1 - 7 of 7

Relevance scale

- 1 [Workshop on compositional software architectures: workshop report](#)
- May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3
- Publisher:** ACM Press
- Full text available: pdf(2.91 MB) Additional Information: [full citation](#), [index terms](#)

- 2 [Help design challenges in network computing](#)
- Ben Gelernter
- September 1998 **Proceedings of the 16th annual international conference on Computer documentation SIGDOC '98**
- Publisher:** ACM Press
- Full text available: pdf(1.12 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** documentation, help, information architecture, network computing, network computing architecture, online help, thin clients, user assistance

- 3 [A storage system for complex objects](#)
- U. Deppisch, H.-B. Paul, H.-J. Schek
- September 1986 **Proceedings on the 1986 international workshop on Object-oriented database systems OODS '86**
- Publisher:** IEEE Computer Society Press
- Full text available: pdf(1.17 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Complex objects are required in many new applications of databases. A common characteristic feature is that objects use other (sub-) objects for their description. Consequently retrieval or extraction of complex objects may include some or all of their subobjects which - in turn - may have subobjects to be extracted too. Accordingly a storage system is described which was designed and implemented with the objective to provide this set orientation: Relations with relation-valued attr ...

- 4 [Discovering Internet marketing intelligence through online analytical web usage](#)

mining

Alex G. Büchner, Maurice D. Mulvenna  
December 1998 **ACM SIGMOD Record**, Volume 27 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(772.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This article describes a novel way of combining data mining techniques on Internet data in order to discover actionable marketing intelligence in electronic commerce scenarios. The data that is considered not only covers various types of server and web meta information, but also marketing data and knowledge. Furthermore, heterogeneity resolution thereof and Internet- and electronic commerce-specific pre-processing activities are embedded. A generic web log data hypercube is formally defined ...

5 Navigating in information spaces: Rapid-fire image previews for information

navigation

Kent Wittenburg, Wissam Ali-Ahmad, Daniel LaLiberte, Tom Lanning

May 1998 **Proceedings of the working conference on Advanced visual interfaces AVI '98**

**Publisher:** ACM Press

Full text available: [pdf\(3.94 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper we consider the role of rapid-fire presentation of images in the service of navigation in information spaces. We presume a model of information navigation in which the user performs a cycle of (pre)viewing, selecting, and moving. Our hypothesis is that images presented to the user in rapid succession can significantly enhance the previewing step, thus optimizing the selection step and improving navigability. We discuss two prototypes for navigation tools in Web information spaces i ...

**Keywords:** images, information navigation, previewing, visualization

6 Design principles for data-intensive Web sites



Stefano Ceri, Piero Fraternali, Stefano Paraboschi  
March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(716.61 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

7 Hypertext information retrieval for the Web



Eric W. Brown, Alan F. Smeaton  
September 1998 **ACM SIGIR Forum**, Volume 32 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(464.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The notion of searching a hypertext corpus has been around for some time, and is an especially important topic given the growth of the World Wide Web and the general dissatisfaction users have with the tools currently available for finding information on the Web. In response to this, a workshop was held as part of SIGIR'98 on *Hypertext Information Retrieval for the Web* and this document presents a brief summary of the papers presented at that workshop, along with a set of themes identified ...

Results 1 - 7 of 7

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2007 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)


[Web](#) [Images](#) [Video](#) [News](#) [Maps](#) [more »](#)

firmware hardware xml ohashi

[Advanced Scholar Search](#)  
[Scholar Preferences](#)  
[Scholar Help](#)

## Scholar

Results 1 - 7 of 7 for firmware hardware xml ohashi. (0.31 seconds)

### All Results

#### T Ohashi

Service processor control system and computer-readable recording medium recording service processor ... - all 3 versions »

T Ohashi - US Patent 6,993,565, 2006 - Google Patents

... DESCRIBE IN XML SC5 ... the manufacture of apparatuses/units, various codes relating to **firmware** and documents relating to **firmware** and **hardware** are generated ...

[Related Articles](#) - [Web Search](#)

Document managing control system and computer-readable recording medium to record document managing ... - all 3 versions »

T Ohashi - US Patent 6,983,302, 2006 - Google Patents

... a manufacturer server for storing a component information with respect to a wholeness of a **hardware** and a **firmware** for composing a ... DISPLAY ON XML BROWSER ...

[Related Articles](#) - [Web Search](#)

Method and system for retrieving information, and computer product - all 3 versions »

T Ohashi - 2002 - freepatentsonline.com

... to generate an abstract of the text and the XML format. ... independently registers design/manufacturing information relating to the **hardware** and **firmware** of a ...

[Related Articles](#) - [Cached](#) - [Web Search](#)

Method of and apparatus for multimedia processing, and computer product

T Ohashi - 2004 - freepatentsonline.com

... Inventors: **Ohashi**, Tadashi ... The name information is ruled as an XML (extensible markup ...

network ontology generation to any name of **hardware**, **firmware**, and software ...

[Cached](#) - [Web Search](#)

Method for managing a parking lot - all 6 versions »

MN Haynes, PE Haynes - US Patent 7,123,166, 2006 - Google Patents

... any well-known presentation proto-col, including SGML, HTML, and/or XML. ... ASIC) which

has been designed to implement in its **hardware** and/or **firmware** at least ...

[Related Articles](#) - [Web Search](#)

Aibo and Webots: Simulation, wireless remote control and controller transfer - all 2 versions »

L Hohl, R Tellez, O Michel, AJ Ijspeert - Robotics and Autonomous Systems, 2006 - Elsevier

... the robot independently of the underlying **firmware** and as ... the Webots requests to the robot's **hardware**. ... 3D robot simulator that relies on an XML description ...

[Cited by 1](#) - [Related Articles](#) - [Web Search](#)

Methods and systems for providing and displaying information on a keyboard - all 5 versions »

SF Katz - US Patent 6,834,294, 2004 - Google Patents

... Kauffert Jaeger **Ohashi** e Kim D'Souza ... IB illustrates an exemplary keyboard **hardware** architecture which may be used with one embodiment of the present invention ...

Set	Items	Postings	Description
S1	86942	282254	S HARDWARE OR HARD()WARE?
S2	1114586	5261394	S (APPARATUS? OR DEVICE? OR COMPONENT? OR EQUIPMENT? OR PERIPHERAL?) (3N) (COMPUTING OR ELECTRONIC?() INFORMATION?) OR COMPUTER? OR MICROPROCESSOR? OR DATAPROCESSOR? OR CENTRALPROCESSOR?
S3	683874	1715652	S CPU? ? OR (DATA OR MICRO OR CENTRAL) () PROCESSOR? OR MINICOMPUTER? OR MICROCOMPUTER?
S4	139144	666098	S FIRMWARE? OR FLASH?() (MEMOR? OR DRIVE?) OR ROM OR PROM OR EPROM OR EEPROM OR FOTA OR FIRM()WARE?
S5	1702	9227	S (HARD OR EMBED? OR RESIDENT? OR DEDICATED? OR PREINSTALL? OR ONBOARD? OR INTEGRATED) () (SOFTWARE? OR OS OR OPERAT?() SYSTEM?)
S6	3746	41600	S OPROM OR OPTIONROM OR PLUG(2W)PLAY()BIOS OR BIOS()BOOT()SPECIFICAT? OR BIOS OR BASIC()INPUT()OUTPUT()SYSTEM? OR INTEGRAT?()OPERAT?()SYSTEM?
S7	6302	42239	S TFTP OR TRIVIAL()FILE()TRANSFER()PROTOCOL OR LIGHT?(2W)FTP OR FCODE OR PCI()CARD? OR PCICARD? OR MOTHERBOARD? OR (ADAPTER? OR SCSI OR RAID) ()CARD? ?
S8	5978	56054	S EXTENSIBLE?(3W)INTERFACE(5N) (EFI OR IBM OR INTEL) OR PCBIOS OR SMBIOS OR ACPI OR SPARC OR DEVICE()DRIVER?
S9	71918	854460	S S1:S3 AND S4:S8
S10	47836	359215	S STORE? OR STORAG? OR ARCHIV? OR RECORD??? OR STORING OR SAVE? OR SAVING? OR CATALOG?
S11	10588	29192	S INVENTORY? OR INVENTORIE? OR LOG OR LOGS OR LOGGED OR LOGGING OR COPY? OR COPIE?
S12	5488	41328	S SERVER? OR DATABASE? OR DATA()BASE? OR HARDDRIVE? OR HARD()DRIVE?
S13	6890	38738	S TRACK? OR AUDIT? OR COMPIL? OR MONITOR? OR TABULAT? OR CHECK()LIST? ? OR CHECKLIST?
S14	56485	648535	S INFO OR INFORMATION OR DATA OR SPECIFICATION? OR CHARACTERISTIC? OR ATTRIBUT? OR TRAIT? OR METADATA? OR METAINFO?
S15	28455	61904	S DATUM OR SPEC OR SPECS OR DETAILS OR DESCRIPTION? OR STATISTIC? OR DESCRIPTOR? OR PROFIL? OR MANIFEST?
S16	1440	5182	S CHRONICL? OR SUMMAR? OR SUMMATION? OR RECAP? OR RECOUNT? OR HISTOR? OR FACT? ? OR REPORT? ? OR COMPENDI?
S17	18005	107731	S VARIET? OR PLURAL? OR MULTIPLE? OR MULTIPLICIT? OR MULTITUD? OR SEVERAL? OR FAMILY?
S18	12205	99786	S COLLECTION? OR ARRAY? OR ASSEMBLAG? OR ENSEMBL? OR NETWORK? OR CONSTELLATION? OR GROUP?
S19	30415	74937	S DESIGN? OR CREATION? OR BRAINSTORM? OR BLUEPRINT? OR DRAWING? OR DRAFT??? OR ILLUSTRAT? OR TEMPLATE?
S20	1427	3901	S DEVELOPMENT? OR EVOLUTION? OR TIMELINE? OR TIME()LINE? OR TIME() (SPECTRUM? OR GRAPH?)
S21	6485	25324	S MANUFACTUR? OR PRODUCTION? OR FABRICAT? OR PRODUCING? OR CONSTRUCTION? OR MASSPRODUC?
S22	1944	7976	S INSPECTION? OR SEAL(2W)APPROVAL? OR MAINTENANC? OR QUALITY()CONTROL? OR REPAIR? OR RECONDITION?
S23	103	372	S CONTRACT? ? OR CONTRACTUAL? OR (LEGAL OR BINDING? OR SALES OR LEASE? OR LEASING? OR RENTAL OR MAINTENANC?) ()AGREEMENT?
S24	7909	35786	S COMMON OR SYNCHRON? OR SHARED OR RELATED? OR CHILD?(5N)PARENT? OR SIMPATICO?
S25	2844	8779	S AKIN OR IDENTICAL? OR SIMILAR? OR DEPENDEN? OR AFFILIAT? OR HOMOGEN? OR CONGRUEN?
S26	3043	17212	S (NUMBER? OR CLASSIFIC? OR HIERARCH? OR HIERAT? OR ORDER? OR TAXONOM? OR NUMER? OR ALPHANUMER? OR CONCORDAN?) (5N) (SYSTEM? OR METHOD? OR PROCESS?? OR PROCEDUR? OR PROTOCOL? OR TREE? ? OR STRUCTUR? OR SCHEMAT?)
S27	82	823	S XML OR (EXTEND? OR EXTENS? OR XTENS? OR XTEND?) () (MARKUP OR MARK()UP OR LANGUAGE?)
S28	36092	103352	S IC=(G06F?)
S29	29098	71011	S MC=(T01?)
S30	82	2177	S S9 AND S27
S31	33	1294	S S30 AND S1:S3(10N)S4:S8
S32	0	0	S S9 AND S10:S13(7N)S14:S16 AND 10:S16(7N)S1:S8

S33	49281	1664015	S S9 AND S10:S13 AND S14:S16
S34	32260	1680980	S S33 AND S10:S13 (10N) S14:S16
S35	13792	896725	S S34 AND S1:S3 (10N) S4:S8
S36	12701	980923	S S35 AND S10:S16 (10N) S1:S8
S37	26837	1038825	S S9 AND S10:S13 (7N) S14:S16 AND S10:S16 (7N) S1:S8
S38	27912	1664341	S S36:S37
S39	4842	523648	S S38 AND S17:S18 (7N) S1:S8
S40	27912	1858096	S S38:S39
S41	18282	1596068	S S40 AND S28:S29
S42	27912	2420382	S S40:S41
S43	1391	238537	S S42 AND S26
S44	472	133670	S S43 AND S39
S45	46	8138	S S43 AND S24:S25 (7N) S26
S46	920	191917	S S43:S44 AND S19:S23
S47	1	261	S S46 AND S19 AND S20 AND S21 AND S22:S23
S48	5	893	S S46 AND S27
S49	5	874	S S43:S44 AND S27
S50	72	9819	S S33:S42 AND S27
S51	42	13655	S S46 AND S19:S21 AND S22:S23
S52	908	190615	S S46 AND S19:S21
S53	798	177082	S S52 AND S28:S29
S54	908	211533	S S52:S53
S55	405	113743	S S54 AND S1:S3 (7N) S4:S8 AND S10:S13 (7N) S14:S16 AND S10:S16 (7N) S1:S8
S56	405	115255	S S55 AND S26:S27
S57	908	221454	S S54:S56 AND S26
S58	5	1171	S S57 AND S27
S59	31	7729	S S57 AND S24:S25 (7N) S26
S60	167	33987	S S30:S32 OR S45 OR S47:S51 OR S58:S59
S61	50	15333	S S60 AND AY=1970:1999
S62	44	8992	S S60 NOT AY=2000:2007
S63	355	109190	S S55:S56 AND S10:S13 (7N) (S1:S3 AND S4:S8)
S64	321	97070	S S63 NOT S60
S65	276	87737	S S64 AND S10:S13 (5N) S14:S16 AND S14:S16 (7N) (S1:S3 AND S4:S8)
S66	276	88166	S S65 AND (S19:S23 OR S26:S27)
S67	144	53861	S S66 AND AY=1970:1999
S68	105	31801	S S66 NOT AY=2000:2007
S69	208	71140	S S61:S62 OR S67:S68
S70	208	52191	IDPAT (sorted in duplicate/non-duplicate order)
S71	208	52191	IDPAT (primary/non-duplicate records only)

; show files

[File 347] **JAPIO** Dec 1976-2007/Mar(Updated 070809)

(c) 2007 JPO & JAPIO. All rights reserved.

[File 350] **Derwent WPIX** 1963-2007/UD=200757

(c) 2007 The Thomson Corporation. All rights reserved.

\*File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit <http://www.dialog.com/dwpi/>.

71/5,K/105 (Item 105 from file: 350) [Links](#)  
Derwent WPIX  
(c) 2007 The Thomson Corporation. All rights reserved.

0009377832 *Drawing available*  
WPI Acc no: 1999-312373/199926  
XRPX Acc No: N1999-233307

**Computer connected devices identification and control method**

Patent Assignee: MICROSOFT CORP (MICR-N)

Inventor: RENERIS K S

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5903894	A	19990511	US 1997810019	A	19970303	199926	B

Priority Applications (no., kind, date): US 1997810019 A 19970303

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 5903894	A	EN	32	14	

**Alerting Abstract US A**

NOVELTY - The relative positions of the two device objects within the **hierarchical data structure** represents physical connection between the two devices. The **hierarchical data structure** is referred while controlling two devices.

DESCRIPTION - A device object which is stored within hierarchical data structure, identifies the corresponding device. Another device object positioned below the previous device object positioned below the previous device object within the hierarchical data structure, identifies that corresponding device. INDEPENDENT CLAIMS are also included for the following:

- A. a **computer** system to dynamically expand hierarchical data structure;
- B. a **computer readable media** to **store computer program** for controlling device **within computer** system;
- C. a controllable device power **shut-down** method in **computer** system

USE - For identifying and controlling **computer hardware** devices and to represent physical I/O connections **between them**.

ADVANTAGE - Provides extensible and abstract techniques of controlling the devices executable by operating system or any other software module such as **BIOS** routine.

DESCRIPTION OF **DRAWINGS** - The figure shows block diagram of **computer system**.

**Title Terms /Index Terms/Additional Words:** COMPUTER; CONNECT; DEVICE; IDENTIFY; CONTROL ; METHOD

**Class Codes**

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-017/30			Main		"Version 7"

US Classification, Issued: 707100000, 707103000, 395284000, 395828000

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): **T01-H05A; T01-J05B2B**

**Alerting Abstract ...NOVELTY** - The relative positions of the two device objects within the **hierarchical data structure** represents physical connection between the two devices. The **hierarchical data structure** is referred while controlling two devices. ... a **computer system** to dynamically expand hierarchical data structure; a **computer readable media** to **store computer program** for controlling device **within computer system**; a controllable device power **shut-down** method in **computer system USE** - For identifying and controlling **computer hardware** devices and to represent physical I/O connections **between them....** ...  
**ADVANTAGE** - Provides extensible and abstract techniques of controlling the devices executable by operating system or any other software module such as **BIOS** routine.**DESCRIPTION OF DRAWINGS** - The figure shows block diagram of **computer system**.**Class Codes** Manual Codes (EPI/S-X): **T01-H05A... ..T01-J05B2B** Original Publication Data by Authority**Original Abstracts:**A **hierarchical data structure** is **created** in **dynamic** memory that is dynamically expanded or modified during run-time operations of the **computer system**. **Information** about the devices is loaded from a definition block into the **hierarchical data structure**. The **information** is a **byte stream** of data that is translated and stored as hierarchical information, such as device objects, data objects, and control method objects. These objects are hierarchically nested within the **hierarchical data structure**. A **device object** identifies a corresponding device in the **computer system**. The **hierarchy** formed between device objects represents the **hierarchical I/O connections within the computer system**. A **data object** identifies configuration and hardware dependency **information** associated with a **corresponding** device. A control method object is an executable reference for controlling a corresponding device. The control method object is a sequence of pseudocode instructions interpreted by the operating system providing an abstract, extensible, and portable mechanism for precise control of a device without calling routines from the **BIOS**. The **hierarchical data structure** is **preferably used** by the operating system as a communication tool and reference to identify devices, to identify configuration and power management information about devices, to provide an executable control mechanism that... **Claims:**A **computer-implemented process** for **creating** and using a **hierarchical data structure** to **identify** and control a **plurality** of **devices** connected to the **computer** including a first device physically connected to the **computer** and a second device physically connected to the first device, comprising the steps of:**storing** a first device **object** within the hierarchical **data structure**, the first **device object** identifying the first device; and**storing** a second device object positioned **below** the first device object within the **hierarchical data structure**, the second device **object** identifying the second device;the relative positions of first and second device objects within the **hierarchical data structure** representing the physical



connection between **the first and second devices**; and referring to the **hierarchical data structure** when controlling the first and second devices.